

**Flood Control Project Maintenance
Levee Inspections**

Fall 2014 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

ST0003	Overall LMA Rating	Total LMA Miles						
Sutter Maintenance Yard East Levee Sacramento River	U	26.82						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.04		0.04	0.15%	0.01			
Trim / Thin Trees	0.01		0.01	0.04%				
Encroachments	0.24		0.24	0.90%	0.60	0.28		
Animal Control	0.01		0.01	0.04%				
Slope Stability	0.01		0.01	0.04%				
Erosion / Bank Caving	0.19		0.19	0.71%				
<i>Supplemental</i>								
USACE Erosion Survey	11.44		11.44	42.65%				
DWR UCIP Field Study					0.10	0.12		
<i>LMA Totals:</i>	11.94	0.00	11.94	44.52%	0.71	0.40	0.00	0.00

Unit No. 01 Sacramento River LB	Overall Unit Rating	Total Unit Miles						
ST0003	U	19.85						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.01		0.01	0.05%	0.01			
Trim / Thin Trees	0.01		0.01	0.05%				
Encroachments	0.24		0.24	1.21%	0.60	0.28		
Animal Control	0.01		0.01	0.05%				
Slope Stability	0.01		0.01	0.05%				
Erosion / Bank Caving	0.19		0.19	0.96%				
<i>Supplemental</i>								
USACE Erosion Survey	11.44		11.44	57.63%				
DWR UCIP Field Study					0.10	0.12		
<i>Unit Totals:</i>	11.91	0.00	11.91	60.00%	0.71	0.40	0.00	0.00

Unit No. 02 Colusa Bypass RB	Overall Unit Rating	Total Unit Miles						
ST0003	A	2.20						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.01		0.01	0.46%				
<i>Unit Totals:</i>	0.01	0.00	0.01	0.46%	0.00	0.00	0.00	0.00

Unit No. 03 Colusa Bypass LB	Overall Unit Rating	Total Unit Miles						
ST0003	A	2.29						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.01		0.01	0.44%				
<i>Unit Totals:</i>	0.01	0.00	0.01	0.44%	0.00	0.00	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**

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Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin (cont.)

Unit No. 04 Moulton Bypass RB	Overall Unit Rating	Total Unit Miles							
ST0003	A	0.30							
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Vegetation	0.01		0.01	3.33%					
<i>Unit Totals:</i>	0.01	0.00	0.01	3.33%	0.00	0.00	0.00	0.00	

Unit No. 05 Moulton Bypass LB	Overall Unit Rating	Total Unit Miles							
ST0003	A	2.19							
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
No Items									
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%					

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2014 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			U	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2014 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento River			Left	19.85
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	03/13/2014 - 03/13/2014		10/23/2014 - 10/23/2014	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Bryan Reniff Sutter Maintenance Yard		Bryan Reniff Sutter Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- completion of the inspection
- any changes other than the results of normal maintenance
- corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/23/2014 10/23/2014	Bob Duffey

LM Start		Rating **	A	Issue No.	31
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Operations & Maintenance Manuals			°	
				°	
DWR ID	DWR_ST0003_01_s_2013_31				
Action/Comments					
Inspector Comments: The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	32
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Emergency Supplies & Equipment			°	
				°	
DWR ID	DWR_ST0003_01_s_2013_32				
Action/Comments					
Inspector Comments: The LMA has adequate flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	33
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Flood Preparedness & Training			°	
				°	
DWR ID	DWR_ST0003_01_s_2013_33				
Action/Comments					
Inspector Comments: The LMA has completed flood fight training in 2014.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/23/2014 10/23/2014	Bob Duffey

LM Start	0.00	Rating **	M	Issue No.	27
LM End	11.41	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			39.266315 °	39.265730 °
				-122.020682 °	-122.014925 °
DWR ID	DWR_ST0003_01_f_2014_27				
Action/Comments					
Inspector Comments: 2009 - Slump in the middle of the section has left a vertical section on the bank. 2010 - Old cobble site unraveling, site extended downstream. 2013: No observed changes. [2013 Site ID: SAC_151-0_R]					

Photo 1 of 1 : FA_2014_ST0003_264_27_20141013_00012.jpg



USACE 2013 Photo #1

LM Start	0.08	Rating **	U	Issue No.	3
LM End	0.14	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.194978 °	39.195022 °
				-121.937502 °	-121.938563 °
DWR ID	DWR_ST0003_01_s_2012_3				
Action/Comments					
Building					

Photo 1 of 1 : FA_2014_ST0003_264_3_20141013_00002.jpg



View of a old building next to the landside toe.

LM Start	1.11	Rating **	U	Issue No.	34
LM End	1.11	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.194105 °	39.194105 °
				121.953558 °	121.953558 °
DWR ID	DWR_ST0003_01_s_2013_34				
Action/Comments					
Pipe					
Inspector Comments: The pipe has rusted apart at the toe of the levee.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/23/2014 10/23/2014	Bob Duffey

LM Start	1.11	Rating **	U	Issue No.	1
LM End	1.11	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.194106 °	39.194106 °
				-121.953512 °	-121.953512 °
DWR ID	DWR_ST0003_01_f_2014_1				
Action/Comments					
Inspector Comments: FS_ID:38818 EP_NO: 9527 Repair Type: Urgent Crossing Status: Found UCIP Comments: Abandoned and plugged/capped steel pipe on WS berm. DWR leaky pipe marker on LS (12-3). Slope failure on LS. Needs capping of LS steel pipe after detailed investigation7/29/2013 Pipe does not appear to be abandoned. On the WS it appears that a smaller pipe was sleeved into the 18in. pipe and then the difference capped and welded. Pump was not running at time of inspection but LS ditch near outlet was wet. LS slope damage and leaky pipe marker are still present2/30/2013 Same as last inspection6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 18-inch steel pipe through the levee 12.5 feet below the crown. Gate valve on the waterward side. Vertical pump on the bank. (ABO No. 9527 - Butte Creek Farms). O&M manual 136, revision May 2011 FS Date: 6/30/2014 2:03:20 PM					

No Photos

LM Start	1.85	Rating **	U	Issue No.	8
LM End	1.85	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.188164 °	39.188164 °
				-121.964721 °	-121.964721 °
DWR ID	DWR_ST0003_01_f_2014_8				
Action/Comments					
Inspector Comments: FS_ID:38823 EP_NO: 9543 Repair Type: Urgent Crossing Status: Found UCIP Comments: Sloughing LS slope and river bank. DWR marking for leaky pipe 7/29/2013 Same as last inspection 12/30/2013 Same as last inspection 6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 14-inch steel pipe encased in concrete through the levee 12.5 feet below the crown. Slant pump mounted on pile structure on berm. Slide gate in 48-inch riser on berm, walkway to pump. Discharges into concrete distribution box at landward toe. Flap gate on the landward end. (ABO No. 9543 - Harada). O&M manual 136, revision May 2011 FS Date: 6/30/2014 2:06:31 PM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/23/2014 10/23/2014	Bob Duffey

LM Start	3.35	Rating **	M	Issue No.	13
LM End	3.35	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.198180 °	39.198180 °
				-121.985557 °	-121.985557 °
DWR ID	DWR_ST0003_01_f_2014_13				
Action/Comments					
Inspector Comments: FS_ID:38832 EP_NO: 9539 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - it seems that the system was originally designed for drainage, later converted into irrigation system: 6-inch GI pipe and 18-inch PVC pipes inserted into culvert from LS (not plugged)WS opening is plugged with concrete.probably pump is located 350 ft from levee as seen from Google Earth Map7/29/2013 Same as last inspection12/30/2013 Same as last inspection6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: A 30-inch by 36-inch concrete culvert drain through the levee. Gates with 2-inch flashboards on the waterward end. 18-inch PVC pipe through culvert. 13.6 ft invert below crown. (ABO No. 9539 - Locvich). O&M manual 136, revision May 2011 FS Date: 6/30/2014 2:14:18 PM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
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Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/23/2014 10/23/2014	Bob Duffey

LM Start	3.79	Rating **	M	Issue No.	23
LM End	3.79	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.204141 °	39.204141 °	
			-121.982698 °	-121.982698 °	
DWR ID	DWR_ST0003_01_f_2014_23				

No Photos

Action/Comments					
Inspector Comments: FS_ID:39357 EP_NO: 9501 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Concrete pit on WS berm. Concrete distribution box on LS silted and erosion around the box. Slope failure/ transverse cracks on LS levee slope. Two depressions on WS berm. 7/29/2013 Repairs to LS slope and pipe are in progress. Nothing has been done yet to the WS depression. 12/30/2013 Repairs to LS and WS slopes have been completed. Not sure if this is an active or abandoned crossing. LS distribution box is still silted in. 6/30/2014 Crossing appears to be being made active again. WS bank has been cleared of all vegetation and debris to allow pump to slide down to water level. New shutoff valve installed on WS shoulder inside of cmp stand pipe. New air-vac installed inside cmp standpipe on LS shoulder and air vent installed on LS toe. Could not locate pipe end on LS. Need to check for permit number for work done. FIELD_STRUCT_DESC: 16-inch steel pipe through the levee with pump house over concrete pit on berm. No control valves visible. Discharges into concrete box at the landward toe. (ABO No. 9501 - Mayfair Farms). According to Permit 9501A, it is an existing abandoned pipe located at HLM 4.37. O&M manual 136, revision May 2011. FS Date: 6/30/2014 2:18:00 PM					

LM Start	4.19	Rating **	M	Issue No.	11
LM End	4.19	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		39.208935 °	39.208935 °	
			-121.985310 °	-121.985310 °	
DWR ID	DWR_ST0003_01_s_2012_11				

Action/Comments					
Building					

Photo 1 of 1 : FA_2014_ST0003_264_11_20141013_00004.jpg



View of the trailer next to the W/S toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/23/2014 10/23/2014	Bob Duffey

LM Start	4.38	Rating **	U	Issue No.	24
LM End	4.38	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.210247 °	39.210247 °
				-121.988238 °	-121.988238 °
DWR ID	DWR_ST0003_01_f_2014_24				
Action/Comments					
Inspector Comments: FS_ID:38843 EP_NO: 9501A Repair Type: Urgent Crossing Status: Found UCIP Comments: Motor and pump on berm. Appears an abandoned crossing. Leaky valve on LS slope. Pipe removed and laying on berm. No electric connection to the pump. 7/29/2013 Not an abandoned crossing. Pump is connected to WS pipe end at water level and is pumping water to LS and then goes underground to an irrigation ditch about 100yds. upstream. Pump and pipes are disconnected and pulled up to WS toe for high water season. Leaky valve on LS shoulder does not appear to have been fixed. 12/30/2013 Same as last inspection. 6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 10-inch diameter asphalt coated steel pipe through the levee 5 feet below the crown. Siphon breaker on the landward shoulder. (ABO No. 9501A - Mayfair Packing). FS Date: 6/30/2014 2:37:36 PM					

No Photos

LM Start	4.38	Rating **	U	Issue No.	26
LM End	4.38	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.210257 °	39.210257 °
				-121.988250 °	-121.988250 °
DWR ID	DWR_ST0003_01_f_2014_26				
Action/Comments					
Inspector Comments: FS_ID:38844 EP_NO: 9501 Repair Type: Urgent Crossing Status: Found UCIP Comments: Need to be properly abandoned. Transverse cracks on levee road. Also found a concrete outlet on LS. It is not clear whether this passes through the levee. 7/29/2013 Same as last inspection. 12/30/2013 Same as last inspection. 6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 16-inch steel pipe through the levee 13.9 feet below the crown. Gate valve and pump in pump house on berm. Flap gate and concrete distribution box on the landward end. (ABO No. 9501 - Mayfair Farms). O&M manual 136, revision May 2011. FS Date: 6/30/2014 2:39:31 PM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/23/2014 10/23/2014	Bob Duffey

LM Start	4.39	Rating **	U	Issue No.	35
LM End	4.39	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.210280 °	39.210280 °
				-121.988284 °	-121.988284 °
DWR ID	DWR_ST0003_01_f_2014_35				
Action/Comments					
Inspector Comments: FS_ID:38845					
EP_NO: N/A					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: Debris and deteriorated concrete. Gate valve in surge tank 7/29/2013 Same as last inspection 12/30/2013 Same as last inspection 6/30/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 24 inch pipe, 26 ft invert below crown, Slide Gate ws. O&M manual 136, revision May 2011.					
FS Date: 6/30/2014 2:40:14 PM					

No Photos

LM Start	4.59	Rating **	U	Issue No.	37
LM End	4.59	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.212627 °	39.212627 °
				-121.990413 °	-121.990413 °
DWR ID	DWR_ST0003_01_f_2014_37				
Action/Comments					
Inspector Comments: FS_ID:38846					
EP_NO: 10935					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: Found a siphon breaker on LS. Antenna and pump station on WS. Huge erosion on LS slope 7/29/2013 Erosion near LS shoulder may start affecting the roadway if it gets any worse 12/30/2013 Same as last inspection 6/30/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 24-inch steel pipe through the levee 4.0 feet below the crown. Slant pump on the waterward berm. A siphon breaker is installed on the apex of the pipe and off the levee crown on landside. (App. No. 10935 - Mayfair Farms).					
FS Date: 6/30/2014 2:40:52 PM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/23/2014 10/23/2014	Bob Duffey

LM Start	4.66	Rating **	U	Issue No.	12
LM End	4.84	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.213265 °	39.213265 °
				-121.991672 °	-121.991672 °
DWR ID	DWR_ST0003_01_s_2012_12				
Action/Comments					
Building					

Photo 1 of 1 : FA_2014_ST0003_264_12_20141013_00005.jpg



View of the barn on the large crown of the levee.

LM Start	4.66	Rating **	M	Issue No.	15
LM End	4.66	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.213271 °	39.213271 °
				-121.991676 °	-121.991676 °
DWR ID	DWR_ST0003_01_s_2013_15				
Action/Comments					
Repair slope instability.					

Photo 1 of 1 : FA_2014_ST0003_264_15_20141013_00006.jpg



View of the erosion along the waterside slope.

LM Start	4.81	Rating **	U	Issue No.	20
LM End	4.81	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.214168 °	39.214168 °
				-121.993515 °	-121.993515 °
DWR ID	DWR_ST0003_01_s_2012_20				
Action/Comments					
Building					

Photo 1 of 1 : FA_2014_ST0003_264_20_20141013_00009.jpg



View of the building next to the L/S toe.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/23/2014 10/23/2014	Bob Duffey

LM Start	4.81	Rating **	M	Issue No.	22
LM End	4.81	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.214218 °	39.214218 °
				-121.993682 °	-121.993682 °
DWR ID	DWR_ST0003_01_s_2012_22				
Action/Comments					
Landscaping					

No Photos

LM Start	4.84	Rating **	M	Issue No.	18
LM End	4.84	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.214232 °	39.214215 °
				-121.993805 °	-121.993810 °
DWR ID	DWR_ST0003_01_s_2012_18				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/23/2014 10/23/2014	Bob Duffey

LM Start	4.99	Rating **	U	Issue No.	38
LM End	4.99	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.214970 °	39.214970 °
				-121.997177 °	-121.997177 °
DWR ID	DWR_ST0003_01_f_2014_38				

No Photos

Action/Comments					
<p>Inspector Comments: FS_ID:38850 EP_NO: 2904 Repair Type: Urgent Crossing Status: Found UCIP Comments: Surge box on WS and distribution box across the county road on LS. Abandoned pump station and electrical panel on WS. A concrete pump pit on WS/29/2013 Portable tow-pump lowered down WS berm to water level and is pumping water into concrete surge box on WS and the filling the irrigation ditch on LS. Sink hole with standing water that is present above the outlet pipe for the WS surge box. This may indicate a leaking pipe or cracked concrete 12/30/2013 Sink Hole above pipe on WS still present. Pipe end inside of WS surge box shows heavy signs of rust and corrosion. Recommend having an internal camera inspection completed on pipe 6/30/2014 Sink hole near WS surge box is still present. Portable pumps were lowered down the WS bank and were pumping water directly into WS standpipe on to by pass the surge box. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee 18.4 feet below the crown. Slide gate in corrugate metal pipe riser on waterward shoulder, pump and concrete pump pit on the waterward bank. Concrete surge box on the waterward berm. Discharges into irrigation ditch on the opposite side of the county road. (App. No. 2904 - Arnold). Application was for an existing pumping system. O&M manual 136, revision May 2011. FS Date: 6/30/2014 2:48:52 PM</p>					

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/23/2014 10/23/2014	Bob Duffey

LM Start	5.38	Rating **	U	Issue No.	39
LM End	5.38	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.217099 °	39.217099 °
				-122.003778 °	-122.003778 °
DWR ID	DWR_ST0003_01_f _ 2014_39				
Action/Comments					
Inspector Comments: FS_ID:38864 EP_NO: 9514 Repair Type: Urgent Crossing Status: Found UCIP Comments: - Water transfer ditch and CMP riser on WS 23/13 8inch pvc running through pipe preventing slide gate from closing. No positive pipe closure for high water season. Stem on WS screw gate is bent 12/18/2013 Same as last inspection. Levee inspections is working with land owner to solve this issue 6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, slide gate in corrugated metal pipe riser. Concrete headwall on waterward berm, pump on riverbank. Discharges in field at landward toe. Irrigation ditch across waterward berm to headwall. (ABO No. 9514 - Boggs). Pipe invert 11.0 ft below crown. O&M manual 136, revision May 2011. FS Date: 7/1/2014 9:03:40 AM					

No Photos

LM Start	6.02	Rating **	U	Issue No.	40
LM End	6.02	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.220701 °	39.220701 °
				-122.002538 °	-122.002538 °
DWR ID	DWR_ST0003_01_f _ 2014_40				
Action/Comments					
Inspector Comments: FS_ID:38866 EP_NO: 9514 Repair Type: Urgent Crossing Status: Found UCIP Comments: 36-inch CMP found instead of 30-inch CMP. LS pipe tampered 7/23/2013 8inch PVC pipe ran through 36inch CMP preventing screw gate from closing for high water season 12/18/2013 Same as last inspection. Levee inspections is working with land owner to solve the issue 6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal drainpipe through the levee 12.0 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. (ABO No. 9514 - Boggs). O&M manual 136, revision May 2011. FS Date: 7/1/2014 9:08:38 AM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/23/2014 10/23/2014	Bob Duffey

LM Start	6.33	Rating **	M	Issue No.	14
LM End	6.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.223540 °	39.223540 °
				-121.999028 °	-121.999028 °
DWR ID	DWR_ST0003_01_s_2012_14				
Action/Comments					
Prunings					

No Photos

LM Start	6.34	Rating **	M	Issue No.	53
LM End	6.34	Issue Type +	En	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.223563 °	39.223563 °
				-121.999048 °	-121.999048 °
DWR ID	DWR_ST0003_01_s_2014_53				
Action/Comments					
Prunings					

Photo 1 of 1 : FA_2014_ST0003_264_53_20141013_00017.jpg



View of the prunings along the landside toe.

LM Start	6.34	Rating **	M	Issue No.	41
LM End	6.34	Issue Type +	En	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.223796 °	39.223796 °
				-121.999014 °	-121.999014 °
DWR ID	DWR_ST0003_01_f_2014_41				
Action/Comments					
Inspector Comments: FS_ID:38867 EP_NO: 9530 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe outlet on WS partially burried, it needs cleaning7/23/2013 Same as last inspection12/18/2013 Same as last inspection6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal drainpipe through the levee 15.0 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. (ABO No. 9530 - Halsey). FS Date: 7/1/2014 9:14:14 AM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/23/2014 10/23/2014	Bob Duffey

LM Start	6.42	Rating **	M	Issue No.	21
LM End	6.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.224982 °	39.225013 °
				-121.998600 °	-121.998585 °
DWR ID	DWR_ST0003_01_s_2012_21				
Action/Comments					
Material					

Photo 1 of 1 : FA_2014_ST0003_264_21_20141013_00010.jpg



View of the material & garbage along the toe.

LM Start	6.80	Rating **	C	Issue No.	19
LM End	6.80	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.228295 °	39.228295 °
				-121.998571 °	-121.998571 °
DWR ID	DWR_ST0003_01_s_2013_19				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

No Photos

LM Start	7.72	Rating **	M	Issue No.	42
LM End	7.72	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.239458 °	39.239458 °
				-121.993398 °	-121.993398 °
DWR ID	DWR_ST0003_01_f_2014_42				
Action/Comments					
Inspector Comments: FS_ID:38875					
EP_NO: 9532					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Silted concrete box on WS. Depression/erosion around concrete box on WS/23/2013 Same as last					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/23/2014 10/23/2014	Bob Duffey

LM Start	8.32	Rating **	M	Issue No.	43
LM End	8.32	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.246317 °	39.246317 °
				-121.998825 °	-121.998825 °
DWR ID	DWR_ST0003_01_f_2014_43				
Action/Comments					
Inspector Comments: FS_ID:39287 EP_NO: 9529 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Looks abandoned. CMP riser with slide gate on WS. Concrete distribution box on LS- full with sil7/23/2013 Same as last inspection12/18/2013 Same as last inspection6/30/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, slide gate CMP riser on the waterward slope. Concrete box at the landward toe. Pipe invert 12.8 ft below crown. (ABO No. 9529 - Dorwood Ranch)O&M manual 136, revision May 2011. FS Date: 7/8/2014 12:49:58 PM					

No Photos

LM Start	8.76	Rating **	U	Issue No.	2
LM End	8.76	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.252260 °	39.252260 °
				-121.997721 °	-121.997721 °
DWR ID	DWR_ST0003_01_s_2012_2				
Action/Comments					
Building					

Photo 1 of 1 : FA_2014_ST0003_264_2_20141013_00001.jpg



View of the building next to the toe of the levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/23/2014 10/23/2014	Bob Duffey

LM Start	10.27	Rating **	M	Issue No.	4
LM End	10.27	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.270431 °	39.270431 °
				-121.999782 °	-121.999782 °
DWR ID	DWR_ST0003_01_s_2012_4				
Action/Comments					
Building					

No Photos

LM Start	10.36	Rating **	M	Issue No.	5
LM End	10.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.270503 °	39.270503 °
				-122.001339 °	-122.001339 °
DWR ID	DWR_ST0003_01_s_2012_5				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	10.37	Rating **	C	Issue No.	54
LM End	10.37	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.270541 °	39.270541 °
				-122.001577 °	-122.001577 °
DWR ID	DWR_ST0003_01_s_2014_54				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/23/2014 10/23/2014	Bob Duffey

DWR Start	11.51	Rating **	M	Issue No.	28
LM End	11.51	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			39.279910 °	39.283853 °
				-122.018221 °	-122.016113 °
DWR ID	DWR_ST0003_01_f_2014_28				
Action/Comments					
Inspector Comments: 2008 - Large rotational/mass failure in the bank with tree slump. 2009 - Minimal new erosion, the tree is leaning further into the river. 2011 - Site extended downstream. 2012 - Minor new erosion and tree roots are further exposed. 2013: No observed changes. [2013 Site ID: SAC_152-6_L]					

Photo 1 of 1 : FA_2014_ST0003_264_28_20141013_00013.jpg



USACE 2013 Photo #1

LM Start	11.67	Rating **	M	Issue No.	6
LM End	11.90	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.282064 °	39.285084 °
				-122.016517 °	-122.014815 °
DWR ID	DWR_ST0003_01_s _ 2012_6				
Action/Comments					
Ditch					

No Photos

LM Start	11.83	Rating **	M	Issue No.	29
LM End	11.83	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			39.284568 °	39.285298 °
				-122.015690 °	-122.015208 °
DWR ID	DWR_ST0003_01_f_2014_29				
Action/Comments					
Inspector Comments: 2006 - Large rotational/mass failure in the bank with tree slump. Tough clayey toe material. 2007 - Site is between stone revetments with a pump station at the downstream end. 2010 - Erosion is into the levee toe. 2011 - Minor new erosion. 2012 - Minor new erosion. 2013: No observed changes. [2013 Site ID: SAC_152-8_L]					

Photo 1 of 1 : FA_2014_ST0003_264_29_20141013_00014.jpg



USACE 2013 Photo #1

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/23/2014 10/23/2014	Bob Duffey

LM Start	11.95	Rating **	M	Issue No.	7
LM End	12.18	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.285658 °	39.288978 °
				-122.014574 °	-122.013892 °
DWR ID	DWR_ST0003_01_s_2012_7				
Action/Comments					
Ditch					

No Photos

LM Start	12.06	Rating **	M	Issue No.	44
LM End	12.06	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.287251 °	39.287251 °
				-122.014076 °	-122.014076 °
DWR ID	DWR_ST0003_01_f_2014_44				
Action/Comments					
Inspector Comments: FS_ID:39308 EP_NO: 9514 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Gate valve in CMP riser not visible. Flap gate in concrete distribution box on LS not visible/accessible. Looks cleaning required inside concrete surge tank on WS due to silting 7/29/2013 Pump running and WS surge tank was full of water so not sure if silt was cleaned out. LS flap gate was visible and is in good condition 12/30/2013 Same as last inspection 7/2/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 18.1 feet below the crown, pump house on the waterward slope. Gate valve in corrugated metal riser at waterward toe. Flap gate in concrete distribution box at the landward toe. (ABO No. 9514 - Boggs). O&M manual 136, revision May 2011. FS Date: 7/8/2014 1:25:48 PM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/23/2014 10/23/2014	Bob Duffey

LM Start	12.43	Rating **	U	Issue No.	45
LM End	12.43	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.292608 °	39.292608 °
				-122.013483 °	-122.013483 °
DWR ID	DWR_ST0003_01_f_2014_45				
Action/Comments					
Inspector Comments: FS_ID:39309 EP_NO: 9513 Repair Type: Urgent Crossing Status: Found UCIP Comments: A 2.5 inch GI pipe through 36 inch CMP found. A 2 inch electrical conduit also found 7/29/2013 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season 12/30/2013 Same as last inspection 7/2/2014 2.5in. GI pipe and chain in WS surge box will prevent slide gate from closing fully for high water season. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee. Slide gate in concrete surge box on berm. Slant pump on riverbank. Pipe invert 16.5 ft below crown. Concrete distribution box at the landward toe. (ABO No. 9513 -Boggs). O&M manual 136, revision May 2011. FS Date: 7/8/2014 1:28:59 PM					

No Photos

LM Start	12.96	Rating **	U	Issue No.	46
LM End	12.96	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.300140 °	39.300140 °
				-122.013599 °	-122.013599 °
DWR ID	DWR_ST0003_01_f_2014_46				
Action/Comments					
Inspector Comments: FS_ID:39313 EP_NO: 9510 Repair Type: Urgent Crossing Status: Found UCIP Comments: Soil erosion around CMP riser and surge concrete box on WS damaged due to overflow. Pump not found. Flap gate missing on WS concrete box. WS slope eroded. Structure might have been used as drainage structure. This needs to be determined during routine inspection 7/23/2013 Water was flowing from the WS to LS ditch. Not sure where water flow was originating. All erosion problems are still present 12/19/2013 Same as last inspection 7/2/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 18.0 feet below the crown. Slide gate in 36-inch corrugated metal riser on the waterward slope. Concrete box on the waterward side. Pump mounted on waterward bank. (ABO No. 9510 Forry). O&M manual 136, revision May 2011. FS Date: 7/8/2014 1:35:05 PM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/23/2014 10/23/2014	Bob Duffey

LM Start	13.25	Rating **	A	Issue No.	52
LM End	13.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.304310 °	39.304310 °
				-122.013265 °	-122.013265 °
DWR ID	DWR_ST0003_01_f_2014_52				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	13.37	Rating **	M	Issue No.	47
LM End	13.37	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.306065 °	39.306065 °
				-122.013112 °	-122.013112 °
DWR ID	DWR_ST0003_01_f_2014_47				
Action/Comments					
Inspector Comments: FS_ID:39314					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Outlet pipe silted on WS. Inlet structure damaged on					
LS. Not properly abandoned7/23/2013 Same as last					
inspection12/19/2013 Same as last inspection7/2/2014 Same as					
last inspection.					
FIELD_STRUCT_DESC: Abandoned 48-inch corrugated metal					
drainpipe through the levee, 16.5 feet below the crown. Slide gate in 60-					
inch corrugated metal pipe riser on the waterward slope. Landward end of					
pipe on east side of River Road. O&M manual 136, revision May					
2011.					
FS Date: 7/8/2014 1:37:06 PM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/23/2014 10/23/2014	Bob Duffey

LM Start	13.47	Rating **	M	Issue No.	9
LM End	13.66	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.307448 °	39.310231 °
				-122.013037 °	-122.012912 °
DWR ID	DWR_ST0003_01_s _ 2012_9				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 1 : FA_2014_ST0003_264_9_20141013_00003.jpg



View of the erosion along the W/S toe.

LM Start	14.55	Rating **	U	Issue No.	25
LM End	14.55	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.322254 °	39.322254 °
				-122.015985 °	-122.015985 °
DWR ID	DWR_ST0003_01_s_ 2013_25				
Action/Comments					
Pipe					

Photo 1 of 1 : FA_2014_ST0003_264_25_20141013_00011.jpg



View of the unauthorized pipe placed inside the drain pipe.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/23/2014 10/23/2014	Bob Duffey

LM Start	15.47	Rating **	M	Issue No.	48
LM End	15.47	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.333868 °	39.333868 °
				-122.022243 °	-122.022243 °
DWR ID	DWR_ST0003_01_f_2014_48				
Action/Comments					
Inspector Comments: FS_ID:39323 EP_NO: 9506 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Water full on inlet and outlet of the structure 7/23/2013 Same as last inspection 12/19/2013 Same as last inspection 7/2/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch pipe through the levee, 16.5 feet below crown. Pump in floodway. Irrigation transfer ditch on the waterward side to concrete surge box at the waterward toe. Slide gates in corrugated metal pipe riser on the waterward slope. Discharge into concrete distribution box at the landward toe. (ABO No. 9506 - Carter). O&M manual 136, revision May 2011. FS Date: 7/8/2014 1:46:33 PM					

No Photos

LM Start	15.53	Rating **	M	Issue No.	55
LM End	15.53	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			39.331447 °	39.332716 °
				-122.029440 °	-122.029953 °
DWR ID	DWR_ST0003_01_f_2014_55				
Action/Comments					
Inspector Comments: 2004 - Slowly eroding but near vertical with no vegetation to hold it. 2005 - Erosion is close to levee toe but not into the levee section yet. 2010 - Some new toe scour. 2013: No observed changes. [2013 Site ID: SAC_157-7_R]					

Photo 1 of 1 : FA_2014_ST0003_264_55_20141013_00019.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sutter Maintenance Yard East Levee Sacramento River

Levee Inspection Report By Mile - Fall 2014

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/23/2014 10/23/2014	Bob Duffey

LM Start	17.45	Rating **	M	Issue No.	136
LM End	17.45	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.351447 °	39.351447 °
				-122.009385 °	-122.009385 °
DWR ID	DWR_ST0003_01_f_2013_136				
Action/Comments					
Prunings					

A photograph showing a large pile of cut brush and branches in the center of a field. The field is populated with many young, bare trees, suggesting a reforestation or land management project. The ground is covered with dry leaves and some patches of green grass. A date stamp "11/10/2013" is visible in the bottom right corner.

LM Start	17.45	Rating **	M	Issue No.	57					
LM End	17.45	Issue Type +	Ma	Location *	LS					
Category	Earthen Levee			GPS Latitude/Longitude						
				Start	End					
Item	Animal Control			39.351553 °	39.351553 °					
				-122.009388 °	-122.009388 °					
DWR ID	DWR_ST0003_01_f _ 2014_57									
Action/Comments										
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.										

A photograph showing a gravel road or driveway leading towards a line of trees under a cloudy sky. A date stamp '10/23/2014' is visible in the bottom right corner.

LM Start	17.68	Rating **	M	Issue No.	58					
LM End	17.76	Issue Type +	En	Location *	LS					
Category	Earthen Levee			GPS Latitude/Longitude						
				Start	End					
Item	Encroachments			39.354862 °	39.355885 °					
				-122.009292 °	-122.009030 °					
DWR ID	DWR_ST0003_01_f _ 2014_58									
Action/Comments										
Firewood										

A wide, unpaved gravel road stretches into the distance, flanked by dense green trees and vegetation. The sky is overcast. A date stamp '10/23/2014' is visible in the bottom right corner.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/23/2014 10/23/2014	Bob Duffey

LM Start	18.00	Rating **	M	Issue No.	10
LM End	18.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.358956 °	39.359565 °
				-122.007492 °	-122.006219 °
DWR ID	DWR_ST0003_01_s_2012_10				
Action/Comments					
Firewood					

No Photos

LM Start	18.04	Rating **	M	Issue No.	16
LM End	18.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.359188 °	39.359980 °
				-122.006878 °	-122.004517 °
DWR ID	DWR_ST0003_01_s_2012_16				
Action/Comments					
Equipment					

Photo 1 of 1 : FA_2014_ST0003_264_16_20141013_00007.jpg



View of the equipment and trees next to the landside toe of the levee.

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/23/2014 10/23/2014	Bob Duffey

LM Start	18.65	Rating **	U	Issue No.	49
LM End	18.65	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.362866 °	39.362866 °
				-121.997993 °	-121.997993 °
DWR ID	DWR_ST0003_01_f_2014_49				
Action/Comments					
Inspector Comments: FS_ID:39337					
EP_NO: N/A					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: It is not an abandoned crossing. Sloughing at outlet and levee slope is damaged due to sloughing 7/24/2013 Same as last inspection 12/19/2013 Same as last inspection 7/2/2014 It is not an abandoned crossing. Sloughing at outlet and levee slope is damaged due to sloughing.					
FIELD_STRUCT_DESC: A 36- inch corrugated metal drainpipe through the levee, 20.0 feet below the crown. Slide gate at the waterward toe.					
O&M manual 136, revision May 2011.					
FS Date: 7/8/2014 2:06:29 PM					

No Photos

LM Start	18.74	Rating **	M	Issue No.	50
LM End	18.74	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.364067 °	39.364067 °
				-121.997792 °	-121.997792 °
DWR ID	DWR_ST0003_01_f_2014_50				
Action/Comments					
Inspector Comments: FS_ID:39338					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: According to local people, the crossing is functional.					
The gap between 8-inch and 24-inch pipes is grouted with cement. Inlet					
structure is filled with soil 7/24/2013 Same as last					
inspection 12/19/2013 Same as last inspection 7/2/2014 Same as					
last inspection.					
FIELD_STRUCT_DESC: A 8-inch steel pipe sleeved into 24- inch					
corrugated metal drain pipe through the levee, 19.0 feet below the					
crown. Slide gate at waterward toe and concrete inlet box on landside					
of the levee. O&M manual 136, revision May 2011.					
FS Date: 7/8/2014 2:07:51 PM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	19.85	10/23/2014 10/23/2014	Bob Duffey

LM Start	19.62	Rating **	M	Issue No.	51
LM End	19.62	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.375221 °	39.375221 °	
			-121.995878 °	-121.995878 °	
DWR ID	DWR_ST0003_01_f_2014_51				

No Photos

Action/Comments					
Inspector Comments: FS_ID:39343 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Slide Gate WS not found. An abandoned pump and steel pipe found on WS. A 6 ft x 8 ft concrete distribution box with a CMP found on LS. Box filled with soil. An abandoned crossing 7/24/2013 Same as last inspection 12/19/2013 Same as last inspection 7/2/2014 Same as last inspection. FIELD_STRUCT_DESC: 36 inch pipe, 21.7 ft invert below crown. O&M manual 136, revision May 2011. FS Date: 7/8/2014 2:12:24 PM					

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2014 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 02 Colusa Bypass			Right	2.20
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	03/12/2014 - 03/12/2014		10/22/2014 - 10/22/2014	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Bryan Reniff Sutter Maintenance Yard		Bryan Reniff Sutter Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- completion of the inspection
- any changes other than the results of normal maintenance
- corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Sutter Maintenance Yard East Levee Sacramento River

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2014 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 03 Colusa Bypass			Left	2.29
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	03/12/2014 - 03/12/2014		10/22/2014 - 10/22/2014	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Bryan Reniff Sutter Maintenance Yard		Bryan Reniff Sutter Maintenance Yard	

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Sutter Maintenance Yard East Levee Sacramento River

View of the elderberries along the landside toe of the levee.

Page 1 of 1

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2014 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 04 Moulton Bypass			Right	0.30
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	03/13/2014 - 03/13/2014		10/23/2014 - 10/23/2014	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Bryan Reniff Sutter Maintenance Yard		Bryan Reniff Sutter Maintenance Yard	

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Moulton Bypass	Right	0.30	10/23/2014 10/23/2014	Bob Duffey

LM Start	0.02	Rating **	M	Issue No.	2
LM End	0.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.338141 °	39.338141 °
				-122.021852 °	-122.021852 °
DWR ID	DWR_ST0003_04_s_ 2012_2				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : FA_2014_ST0003_267_2_20141013_00001.jpg



View of an elderberry bush by the waterside toe.

LM Start	0.11	Rating **	A	Issue No.	1
LM End	0.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.337738 °	39.337738 °
				-122.020207 °	-122.020207 °
DWR ID	DWR_ST0003_04_f _ 2014_1				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : FA_2014_ST0003_267_1_20141118_00002.jpg



View of the levee with controlled vegetation on both slopes.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2014 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 05 Moulton Bypass			Left	2.19
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	03/13/2014 - 03/13/2014		10/23/2014 - 10/23/2014	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Bryan Reniff Sutter Maintenance Yard		Bryan Reniff Sutter Maintenance Yard	

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2014

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Moulton Bypass	Left	2.19	10/23/2014 10/23/2014	Bob Duffey

LM Start	0.77	Rating **	C	Issue No.	1
LM End	0.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.340822 °	39.340822 °
				-122.009453 °	-122.009453 °
DWR ID	DWR_ST0003_05_s_2013_1				
Action/Comments					
Repair the levee slope damaged by livestock and prevent large animal access.					

No Photos

LM Start	0.77	Rating **	C	Issue No.	2
LM End	0.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.340822 °	39.340822 °
				-122.009452 °	-122.009452 °
DWR ID	DWR_ST0003_05_s_2013_2				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

No Photos

LM Start	1.10	Rating **	A	Issue No.	3
LM End	1.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.338407 °	39.338407 °
				-122.003972 °	-122.003972 °
DWR ID	DWR_ST0003_05_f_2014_3				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : FA_2014_ST0003_268_3_20141118_00005.jpg



View of controlled vegetation on both slopes.

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement